

## Product datasheet for **SC119498**

### RPL28 (NM\_000991) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPL28 (NM_000991) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPL28
Synonyms:	L28
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119498 sequence for NM_000991 edited (data generated by NextGen Sequencing)

```
ATGTCGCGCATCTGCAATGGATGGTCGTGCGGAAGTCTCCAGTTTCCTGATCAAGAGG
AATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCGCAATTCCTTCCGCTAC
AACGGACTGATTCACCGCAAGACTGTGGGCGTGGAGCCGCGAGCCGACGGCAAAGGTGTC
GTGGTGGTCATTAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACC
ACCATCAACAAGAATGCTCGCGCCAGCTCAGCAGCATCAGACACATGATCCGCAAGAAC
AAGTACCGCCCCGACCTGCGCATGGCAGCCATCCGCAGGGCCAGCGCCATCCTGCGCAGC
CAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCAAGAGCTCCTGA
```

Clone variation with respect to NM\_000991.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000991 unedited            TTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTCGCCGCTGCGGAG            GGAGCCGCGCCATGTCTGCGCATCTGCAATGGATGGTCGTGCGGAACTGCTCCAGTTTC            CTGATCAAAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCGCAAT            TCCTTCCGCTACAACGGACTGATTCACCGCAAGACTGTGGCGTGGAGCCGGCAGCCGAC            GGCAAAGGTGTCGTGGTGGTCATTAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCC            TATGTGCGGACCACCATCAACAAGAATGCTCGGCCACGCTCAGCAGCATCAGACACATG            ATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATCCGCAGGGCCAGCGCC            ATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCAAGAGC            TCCTGAGCCCCCTGCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCAANNNAAAAAAAAAANN            NNAA            AAAAAAAAAAACTCGACTCTAAATGGCGGCCGGGTCTAGCTGTTTCTGAACAAACCC            GGGTGGCATCCTTGTGACCCCTCCCAGTGCCTCTCTGGCCCTGGAAAGTGCCACTCCA            GGGCCACCAGCCTTGTCTAATAAATTAAGTGCATCATTTTGTGACCAGNGTCCTTT            AAAATAAGGGTGAGGGGGGGGGTTGGGAACAAGGGCCAATTGGGAACACACCGTAGGC            CTGGGGGTCTATGGGGACCAGCTGGNATGCATGCCACATCTGGCTCC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000991 unedited            GACCTTTTGCCGACTGACTTTCTATGCTCTGGGGGCAGGGAGGTCTCACGTAGCTCTTG            GTGGGGCGGGTCCGCTTCTCTTACCATCACAGGCTTCTGGCTGCGCATGATGGCGCTG            GCCCTGCGGATGGCTGCCATGCGCACGTGCGGGCGGTACTTGTCTTGGGATCATGTGT            CTGATGCTGCTGAGCGTGGCGCAGCATTCTTGTGATGGTGGTCCGCACATAGGAGGTG            GCAGGCTTCCGCTGGCCGATCTCCGCTTAATGACCACCACGACACCTTTGCCGTGCGCT            GCCGGCTCCACGCCACAGTCTTGGCGTGAATCAGTCCGTTGTAGCGGAAGGAATTGCGG            GCCTTCAAGTTATTGGGCTCAGTGTGTAGGTCTGCTTATTCTTCTTATCAGGAACTG            GAGCAGTTCGCGACGACCATCCATTGCAGATGCGCAGACATGGCGGGCGCTCCCTCCGCA            GCGGGCACCCTCGTGCCGAATTCGCGGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTG            ACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGCCCAT            TTGCGTCAACGGGGCGGGTTATTACGACATTTTGGAAAGTCCCCTGATTTTGGTGCCA            AAACAAACTCCCATTGACGTCAATGGGGTGGAGACTTGGAAATCCCCTGAGTCAAACCG            CTATCCACGCCCATTTGGTACTGCCAAAACCGCATCACCATGGTAATAGCGATGACTAA            TACGTANATGACTGCCAAGTANGAAAAGTCCCCGTAAGTCATGTACTGGGCATAATGCCA            GGCGGGCCATTTACCGTCATTGACGTCCAATAGGGGCCGACTTGGCATATGATACACTT            GATGACTGCCAAGTGGGCAGTTTACCG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000991
<b>Insert Size:</b>	580 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_000991.3](#), [NP\\_000982.2](#)

**RefSeq Size:** 4243 bp

**RefSeq ORF:** 414 bp

**Locus ID:** 6158

**UniProt ID:** [P46779](#)

**Cytogenetics:** 19q13.42

**Domains:** Ribosomal\_L28e

**Protein Pathways:** Ribosome

**Gene Summary:** Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L28E family of ribosomal proteins. It is located in the cytoplasm. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2008]

Transcript Variant: This variant (2) lacks a stop-codon-containing segment in the 3' coding region, compared to variant 1. The encoded protein (isoform 2) has a distinct and shorter C-terminus when compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic and transcript sequence to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.